

Datasheet for ABIN7138687  
**anti-STAT1 antibody (pSer727)**[Go to Product page](#)

## 3 Images

## Overview

Quantity:	100 µL
Target:	STAT1
Binding Specificity:	pSer727
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This STAT1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF)

## Product Details

Immunogen:	Peptide sequence around phosphorylation site of serine 727 (P-M-S(p)-P-E) derived from Human STAT1.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using

## Target Details

Target:	STAT1
Alternative Name:	STAT1 ( <a href="#">STAT1 Products</a> )

## Target Details

**Background:** Background: Signal transducer and activator of transcription that mediates signaling by interferons (IFNs). Following type I IFN (IFN- $\alpha$  and IFN- $\beta$ ) binding to cell surface receptors, Jak kinases (TYK2 and JAK1) are activated, leading to tyrosine phosphorylation of STAT1 and STAT2. The phosphorylated STATs dimerize, associate with ISGF3G/IRF-9 to form a complex termed ISGF3 transcription factor, that enters the nucleus. ISGF3 binds to the IFN stimulated response element (ISRE) to activate the transcription of interferon stimulated genes, which drive the cell in an antiviral state. In response to type II IFN (IFN- $\gamma$ ), STAT1 is tyrosine- and serine-phosphorylated. It then forms a homodimer termed IFN- $\gamma$ -activated factor (GAF), migrates into the nucleus and binds to the IFN  $\gamma$  activated sequence (GAS) to drive the expression of the target genes, inducing a cellular antiviral state.

Yuan ZM, et al. (1999) Nature.399 (6738): 814-817.

Schindler C, et al. (1992) Proc. Natl. Acad. Sci. U.S.A 89:7836-7839.

Strausberg R.L (2002). Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903.

Quelle F.W., (1995) J. Biol. Chem. 270:20775-20780.

**Aliases:** Signal transducer and activator of transcription 1 91kD antibody, CANDF7 antibody, DKFZp686B04100 antibody, IMD31A antibody, IMD31B antibody, IMD31C antibody, ISGF 3 antibody, ISGF-3 antibody, OTTHUMP00000163552 antibody, OTTHUMP00000165046 antibody, OTTHUMP00000165047 antibody, OTTHUMP00000205845 antibody, Signal transducer and activator of transcription 1 91 kDa antibody, Signal transducer and activator of transcription 1 antibody, Signal transducer and activator of transcription 1, 91kD antibody, Signal transducer and activator of transcription 1- $\alpha$ /beta antibody, STAT 1 antibody, Stat1 antibody, STAT1\_HUMAN antibody, STAT91 antibody, Transcription factor ISGF 3 components p91 p84 antibody, Transcription factor ISGF-3 components p91/p84 antibody, Transcription factor ISGF3 components p91/p84 antibody, XStat1 antibody

**UniProt:** [P42224](#)

**Pathways:** [JAK-STAT Signaling](#), [RTK Signaling](#), [Interferon-gamma Pathway](#), [Response to Growth Hormone Stimulus](#), [Cellular Response to Molecule of Bacterial Origin](#), [Positive Regulation of Endopeptidase Activity](#), [Hepatitis C](#), [CXCR4-mediated Signaling Events](#)

## Application Details

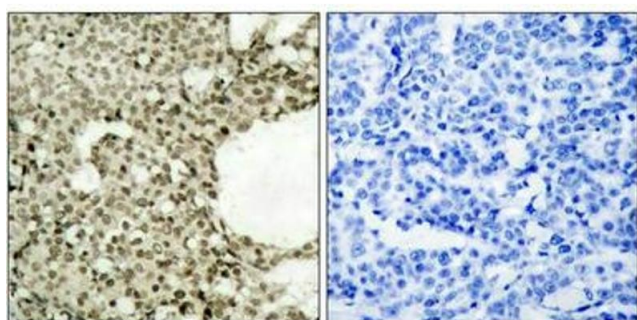
**Application Notes:** WB:1:500-1:1000, IHC:1:50-1:100, IF:1:100-1:200,

**Restrictions:** For Research Use only

## Handling

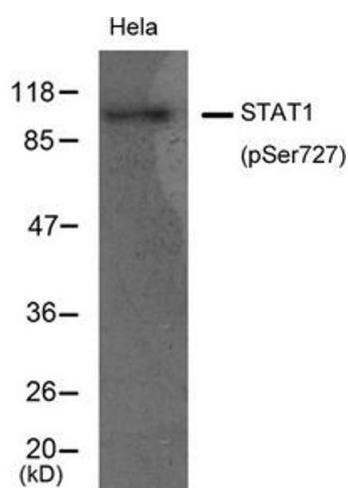
Format:	Liquid
Buffer:	Supplied at 1.0 mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

## Images



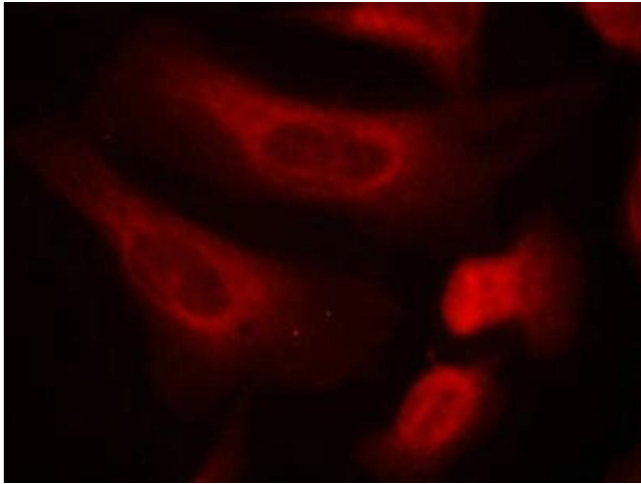
### Immunohistochemistry

**Image 1.** Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using STAT1(Phospho-Ser727) Antibody(left) or the same antibody preincubated with blocking peptide(right).



### Western Blotting

**Image 2.** Western blot analysis of extracts from HeLa cells using STAT1(Phospho-Ser727) Antibody.



#### Immunofluorescence

**Image 3.** Immunofluorescence staining of methanol-fixed HeLa cells using STAT1(Phospho-Ser727) Antibody.